

10/755,863

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ma, et al.

Serial No.: 10/755,863

Filing Date: January 12, 2004

For: APPARATUS AND METHOD FOR SOLUTION
PLASMA SPRAYING

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) Group Art Unit: 1763
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) Examiner:
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)
)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Sir:

In compliance with the duty to disclose, submitted herewith is form PTO-A820 (PTO-1449) listing publication(s) of which those designated by 37 CFR § 1.56 are aware. Copies of the non-United States patents or published applications are enclosed.

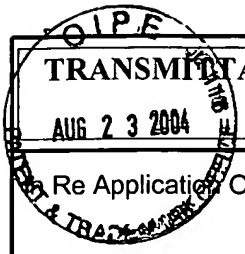
The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or an admission that the information cited is, or is considered to be, material to patentability.


Respectfully submitted,

CANTOR COLBURN LLP

By: Patricia S. DeSimone
Patricia S. DeSimone
Registration No. 48,137

Date: August 19, 2004
Customer No.: 23413
Telephone: (860) 286-2929

 TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))				Docket No. INF-0010	
Re Application Of: Ma, et al.					
Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/755,863	January 12, 2004	NYA	23413	1763	1052
Title: APPARATUS AND METHOD FOR SOLUTION PLASMA SPRAYING					
<p>Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</p> <p>37 CFR 1.97(b)</p> <p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p>37 CFR 1.97(c)</p> <p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p> <p><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p> <p>OR</p> <p><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p>					

 TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No. INF-0010
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In Re Application: **Ma, et al.**

Application No. 10/755,863	Filing Date January 12, 2004	Examiner NYA	Customer No. 23413	Group Art Unit 1763	Confirmation No. 1052
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Title: **APPARATUS AND METHOD FOR SOLUTION PLASMA SPRAYING**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

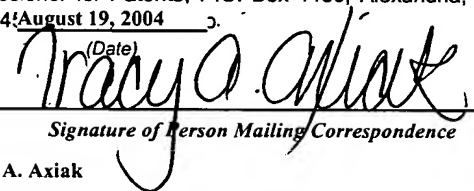
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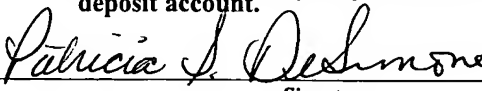
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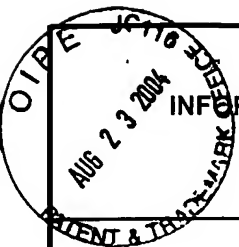
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Dated: **August 19, 2004**

Patricia S. DeSimone
 Registration No. 48,137
 Customer No. 23413
 Phone No. (860) 286-2929

cc:



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

INF-0010

APPLICATION NO.

10/755,863

APPLICANT(S)

Ma, et al.

FILING DATE

January 12, 2004

GROUP ART UNIT

1763

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,982,067	1/1/1991	Marantz, et al.	219	121.47	11/4/1988
	5,032,568	7/16/1991	Lau, et al.	505	1	9/1/1989
	5,421,895	6/6/1995	Tsubouchi, et al.	118	726	12/22/1992
	5,609,921	3/11/1997	Gitzhofer, et al.	427	446	8/26/1994
	5,620,524	4/15/1997	Fan, et al.	118	726	2/27/1995

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	UK2100621	11.06.1981	United Kingdom				
	WO 97/05994	20.02.1997	PCT				
	WO 00/00660	06.01.00	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Bouyer, et al. "Characterization of SiC and Si ₃ N ₄ coatings synthesized by means of inductive thermal plasma from disilane precursors". Applied Organometallic Chemistry. Appl. Organometal. Chem. 2001; 15: 833-840

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. INF-0010	APPLICATION NO. 10/755,863
	Ma, et al.	
	FILING January 12, 2004	GROUP ART 1763

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,744,777	4/28/1998	Bernecki, et al.	219	121.47	5/31/1996
		5,858,470	1/12/1999	Bernecki, et al.	427	453	8/1/1997
		5,876,683	3/2/1999	Glumac, et al.	423	325	11/2/1995
		6,025,034	2/15/2000	Strutt, et al.	427	450	2/5/1998
		6,132,653	10/17/2000	Hunt, et al.	264	5	4/16/1999

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			Delbos, et al. "Plasma Spray Elaboration of Finely Structured YSZ Thin Coating by Liquid Suspension Injection". Thermal Spray 2003: Advancing the Science & Applying the Technology, (Ed.) C. Moreau and B. Marple, Published by ASM International, Materials Park, Ohio, USA, 2003. pp 661-669
			Devi, et al. "Comparison of citrate-nitrate gel combustion and precursor plasma spray processes for the synthesis of yttrium aluminum garnet". J. Mater. Res., Vol. 17, No. 11, Nov. 2002. pp 2846-2851

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	6,195,504	2/27/2001	Horie, et al.	392	394	11/19/1997
	6,277,448	8/21/2001	Strutt, et al.	427	452	6/4/1999
	6,432,487	8/13/2002	Graham, et al.	427	454	12/28/2000
	6,447,848	9/10/2002	Chow, et al.	427	446	6/30/1998

U.S. PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Davi, et al. "Single-step deposition of Eu-doped Y2O3 phosphor coatings through a precursor plasma spraying technique". J. Mater. Res., Vol 17, No. 11, Nov. 2002. pp. 2771-2774
			Karthikeyan, et al. "Preparation of Nanophase Materials by Thermal Spray Processing of Liquid Precursors". NanoStructured Materials, Vol. 9, pp. 137-140. 1997

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			Karthikeyan, et al. "nanomaterial Deposits Formed by DC Plasma Spraying of Liquid Feedstocks". J. Am. Ceram. Soc., 81 (1) 121-128 (1998)
			Karthikeyan, et al. "Nanomaterial Powders and Deposits Prepared by Flame Spray Processing of Liquid Precursors". NanoStructured Materials, Vol. 8. No. 1, pp. 61-74, 1997

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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
			Ma, et al. "Intermediate Temperature SOFC Based on Fully Integrated Plasma Sprayed Components". 6 pages					
			Ma, et al. "Study of Unique Microstructure in SPS Ceramic NanoCoatings". 6 pages					
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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		Applicant(s) Ma, et al.			
		Filing Date January 12, 2004		Group Art Unit 1763	
*EXAMINER INITIAL		OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
		Padture, et al. "Towards Durable Thermal Barrier Coatings with Novel Microstructures Deposited by Solution-Precursor Plasma Spray". Acta mater. 49 (2001) 2251-2257			
		Su, et al. "In Situ Characterization of Small-Particle Plasma Sprayed Powders". Journal of Thermal Spray Technology Vol. 11 (1) March 2002 pp 52-61			
		Parukuttyamma, et al. "Yttrium Aluminum Garnet (YAG) Films through a Precursor Plasma Spraying Technique". J. Am. Ceram. Soc., 84 (8) 1906-1908 (2001)			
		Tikkanen, et al. "Characteristics of the liquid flame spray process". Surface and Coatings Technology 90 (1997) 210-216			
		Schlichting, "Failure Modes in Plasma-Sprayed Thermal Barrier Coatings" University of Connecticut, (2000) 186 pages			
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